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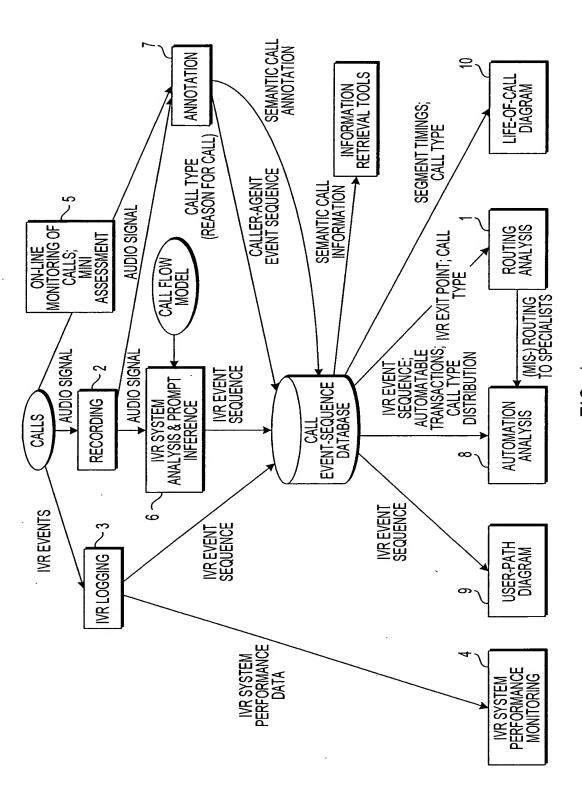
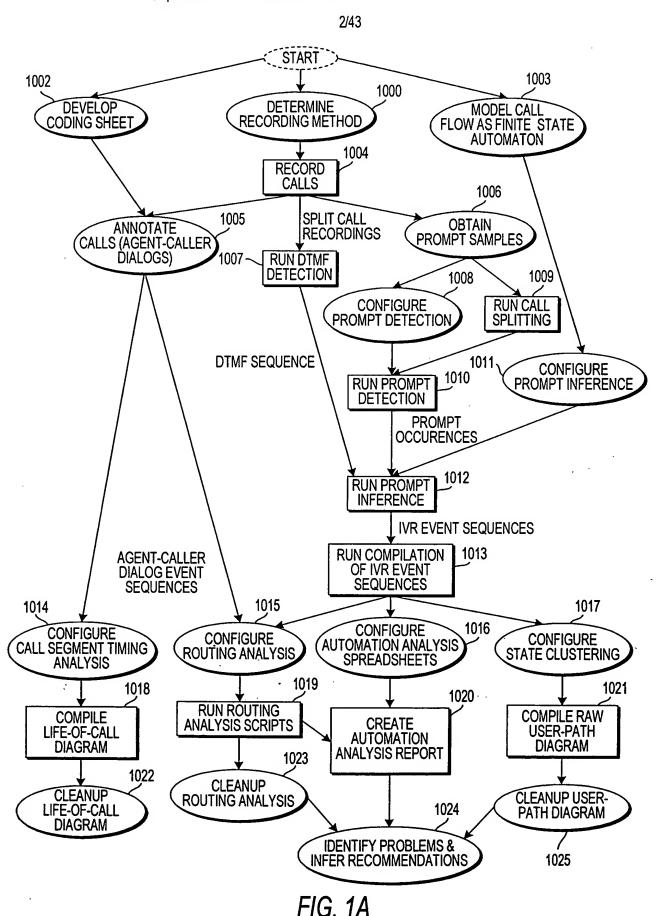
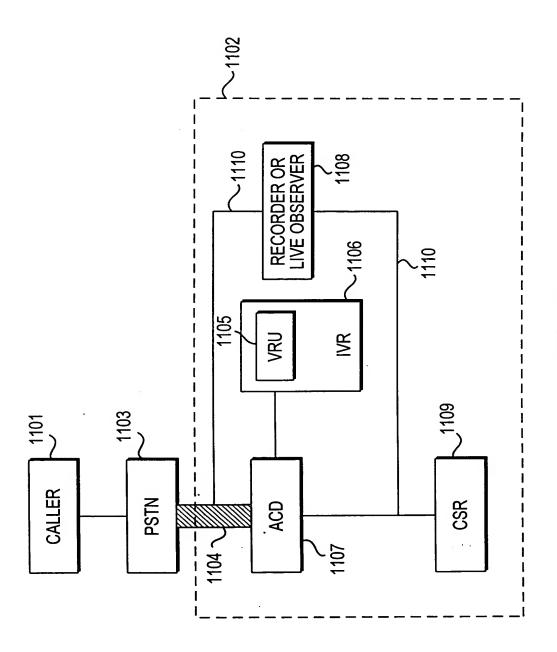


FIG. 1

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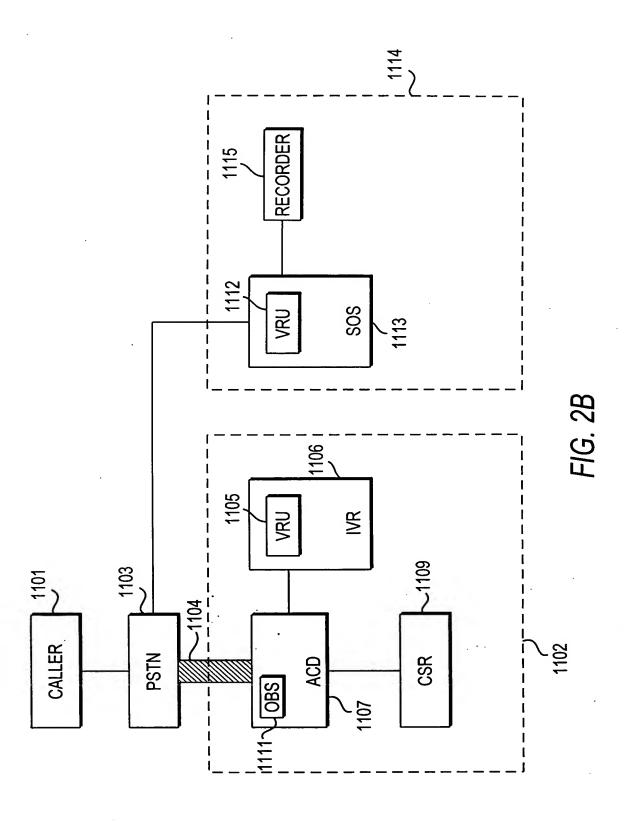


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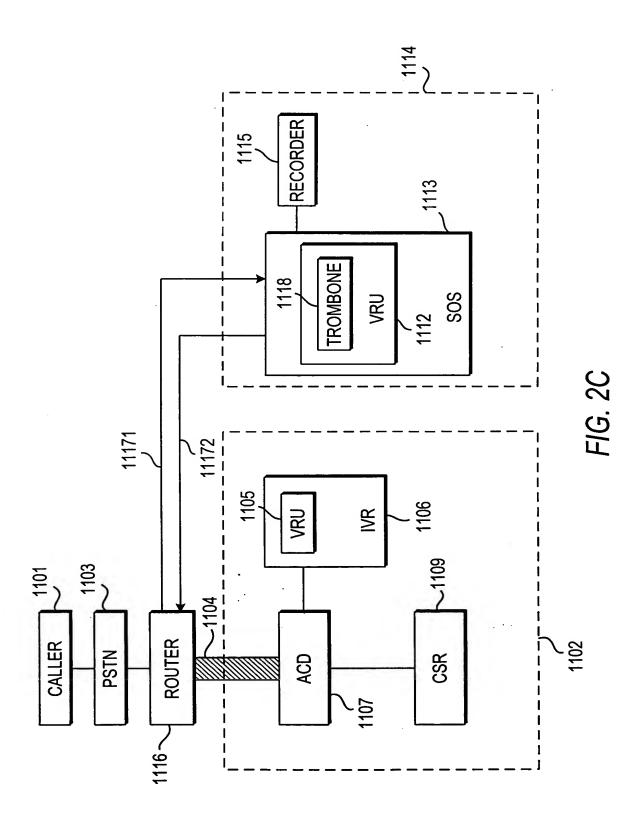


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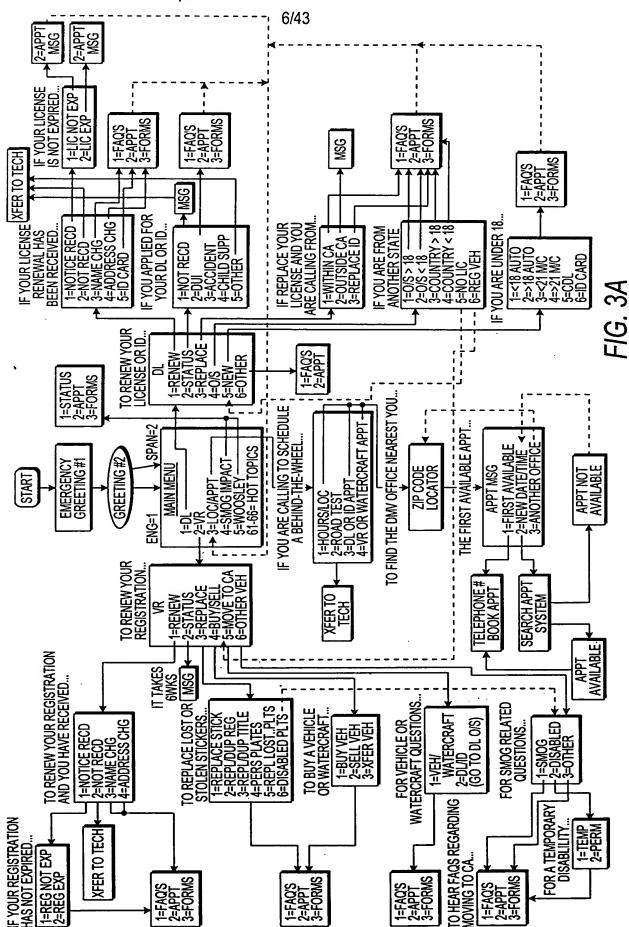
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FIG. 3C-1

FIG. 3C-2

FIG. 3B

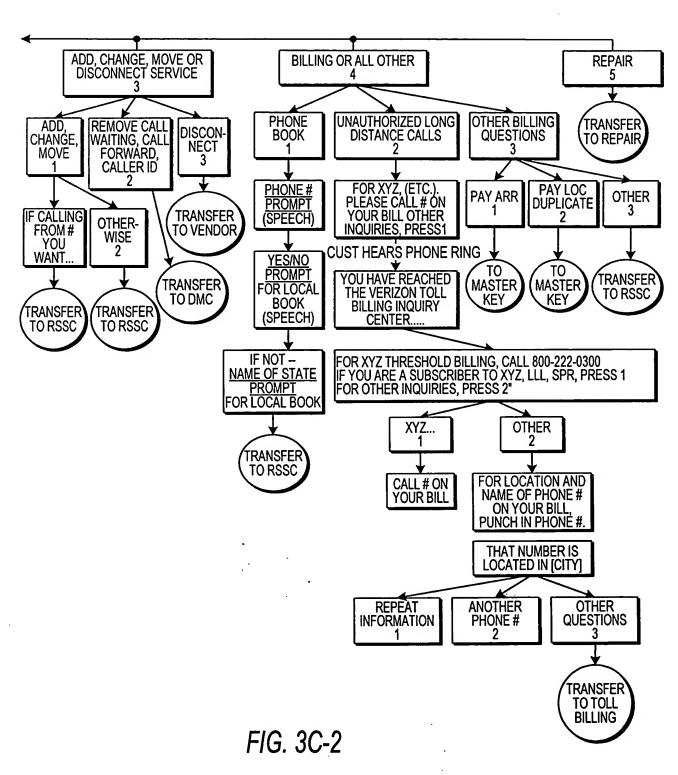
AMOUNT

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Express Mail No. EL029404355US 8/43 MAIN MENU PROMPT TO MAKE PAYMENT ARRANGEMENTS...1 TO ORDER NEW SERVICE.....2 TO ADD, CHANGE, MOVE OR DISCONNECT SERVICE....3 FOR BILLING OR ALL OTHER.....4 FOR REPAIRS.....5 PAYMENT ARRANGEMENTS **NEW SERVICE** (MASTER KEY) **CUST HEARS PHONE RING** NO PRIOR SERVICE AND 1ST CALL **ALREADY** LANGUAGE PROMPT PLACED ORDER **ENGLISH ...1** SPANISH ... 2 TRANSFER transfer` MENU PROMPT TO CSAV TO RSSC LOCATION ACCT ESTAB. ACCT USING PERSONAL PIN MENU PROMPT PHONE # PROMPT MENU PROMPT AVAILABLE LOCATIONS ADDRESS FOR MAILING CUSTOMER CODE PIN # PROMPT PROMPT ZIP PROMPT **BALANCE READOUT** . YOU CURRENTLY OWE \$X
THIS AMOUNT INCLUDES BALANCE OF \$X
THIS AMT INCLUDES \$X FOR TOLL CALLS AND \$X FOR LOCAL CALLS
LAST PAYMENT CREDITED \$X
. YOUR SERVICE HAS BEEN TEMPORARILY DISCONNECTED BECAUSE YOU OWE \$X IF VALID ZIP: OCATION(S) READOUT B. YOUR SERVICE HAS DEEN TENTO C. YOUR SERVICE IS BEING RESTORED FURTHER MENUS INCLUDING (SOME OR ALL OF FOLLOWING) HOURS AND OTHER INFO (PRESS 1 OR 2) NEXT LOCATION... REPEAT LOCATION... MENU PROMPT ENTER NEW ZIP END THIS FUNCTION... SPEAK TO A REP...0 REPEAT ACCT INFORMATION SPEAK TO **PAYMENT ENTER DETAILS COPY OF PAYMENT** LOCATIONS OF LAST PAYMENT BILL REPRESENTATIVE ARRANGEMENTS 6 5 PAY METHOD WHERE PAY MONTH PROMPT PROMPT PROMPT **PROMPT FOR 1** YEAR PROMPT MONTH PROMPT OR 2 PAYMENTS DATE PROMPTS AMT PAID PROMPT ADDRESS PROMPT FIG. 3C-1 PROMPT FOR

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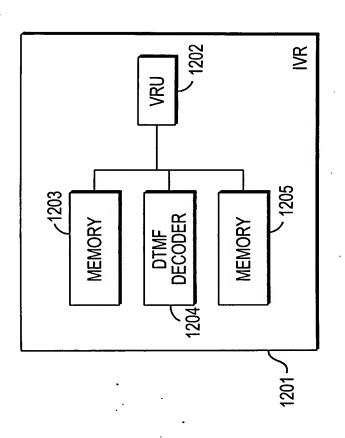


FIG. 3L

STATE	TIME	OUTCOME
CALL ARRIVAL	##:##:##	DATE; CALLER IDENTIFICATION
INITIAL MENU	##:##:##	TOUCH TONE SELECTION, E.G., 3
TELEPHONE NUMBER PROMPT	##:##:##	TOUCH TONE NUMBERS PRESSED, E.G., 617-555-1212
VALIDATE TELEPHONE NUMBER	##:##:##	INVALID NUMBER
TELEPHONE NUMBER RE-PROMPT	##:##:##	TOUCH TONE NUMBERS PRESSED
VALIDATE TELEPHONE NUMBER	##:##:##	VALID NUMBER
MENU 1	##:##:##	TOUCH TONE SELECTION
QUERY A	##:##:##	TOUCH TONE NUMBERS PRESSED
QUERY B	##:##:##	TOUCH TONE NUMBERS PRESSED
MENU 2	##:##:##	TOUCH TONE SELECTION
TRANSFER TO AGENT	##:##:##	TRANSFER QUEUE (CALLER ON HOLD)
IVR END	#:#:#	TRANSFER COMPLETED

FIG. 3E

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AN
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UNIQUE ID	TIME	STATE	OUTCOME
212-123-4567	##'##	CALL ARRIVAL	DATE
212-123-4567	##'##	INITIAL MENU	TOUCH TONE SELECTION
212-123-4567	##'##	ACCOUNT NO. PROMPT	TOUCH TONE NUMBERS PRESSED
212-123-4567	## ' ##	VALIDATE NUMBER	INVALID
212-123-4567	##'##	ACCOUNT NO. RE-PROMPT	ACCOUNT NO. RE-PROMPT CALL TERMINATED BY CALLER
201-321-4567	##'##	CALL ARRIVAL	DATE
201-321-4567	<i>##</i> '##	INITIAL MENU	TOUCH TONE SELECTION
201-321-4567	## ['] ##	ACCOUNT NO. PROMPT	TOUCH TONE NUMBERS PRESSED
201-321-4567	##'###	VALIDATE NUMBER	VALID
201-321-4567	<i>##</i> '##	MENU 1	TOUCH TONE SELECTION
201-321-4567	##'##	TRANSFER TO AGENT	TRANSFER COMPLETED
617-987-6543	##'##	CALL ARRIVAL	DATE
617-987-6543		111	
617-987-6543	##'##	ACCOUNT BALANCE	INFORMATION DELIVERED
617-987-6543	##'##	MENU 3	TOUCH TONE ELECTION
617-987-6543	##,##	TRANSFER TO AGENT	TRANSFER QUEUE (CALLER ON HOLD)
617-987-6543	##'##	IVR END	CALL TERMINATED BY CALLER

FIG. 3F

DIAGRAM

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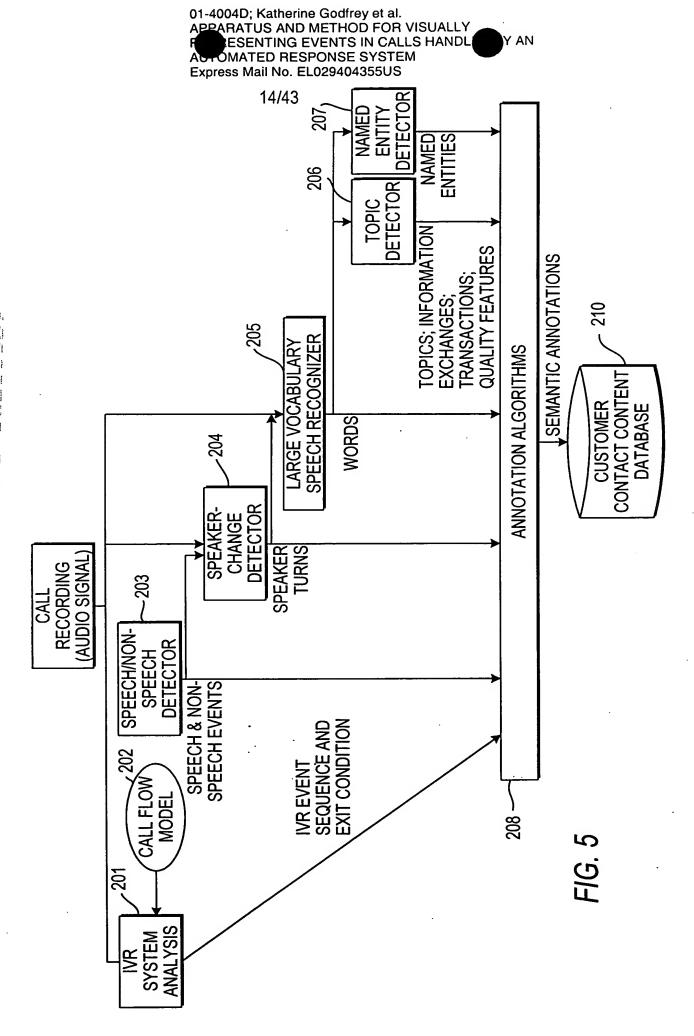
PARATUS AND METHOD FOR VISUALLY RESENTING EVENTS IN CALLS HANDI

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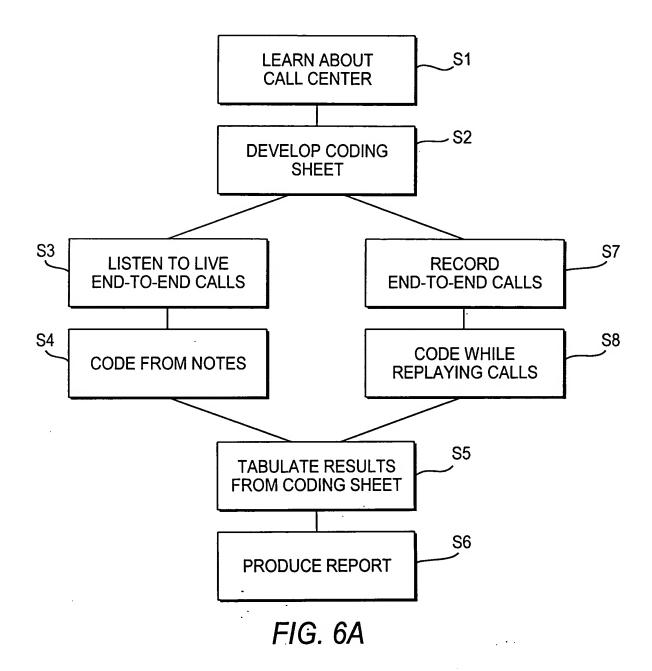
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AUTOMATION ANALYSIS

FIG. 4



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RESERVED SENTING EVENTS IN CALLS HANDLE!
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APPARATUS AND METHOD FOR VISUALLY
REPRES ING EVENTS IN CALLS HANDLED BY A
AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404355US

FIG. 6B

FIG. 6B-1
FIG. 6B-2
FIG. 6B-3
FIG. 6B-4

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APPARATUS AND METHOD FOR VISUALLY
REPRESENTING EVENTS IN CALLS HANDLED BY
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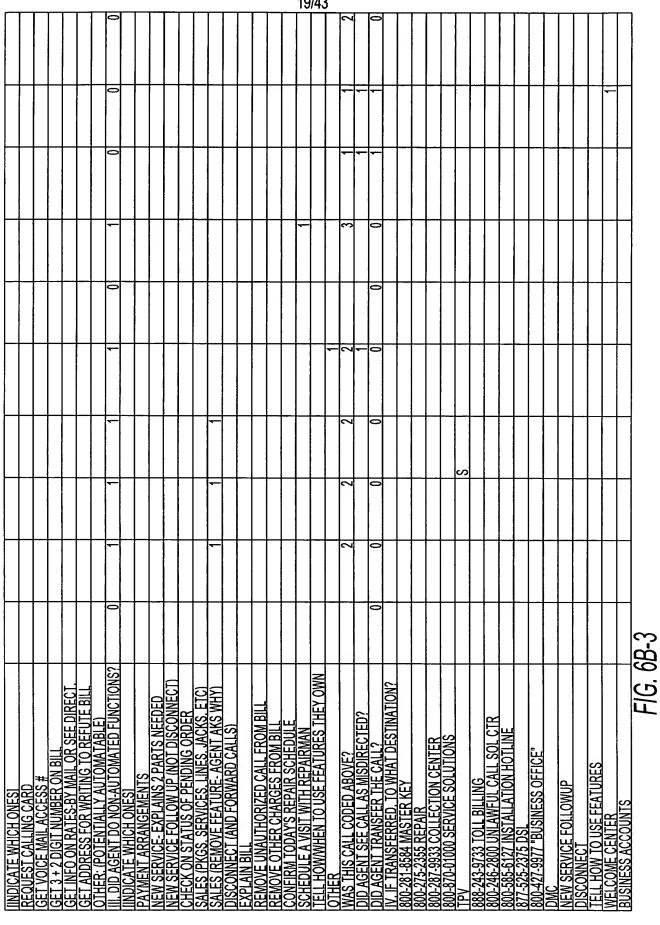
CALL NUMBER	10 VIT	38	53 V IT	22.2	M-10	M-33	M-71	M-130	M-178	M-215	
IDEN	12/14/1996 12/	12/17/1996	12/19/1996		WO W	WOW	VIOVV	AACIA	_	VIOV	
		2121234567		9141234567	9731234567	9181234567	7321234567	5161234567	2021234567	7181234567	
SEA OF CALLER: CLOCK TIME (END OF INTERACTION)	1:58 PM	12:03 PM	0 PM	Z:21 PM	12:41 PM	4:50:41	14:30:57	P.46:48	12:10:21	IVI 12:01:11	
ON OF INTERACTION (WHOLE MIN)		9	12	10				7	6	8	
DUKATION OF ENTIRE CALL (WHOLE MIN) WAS THIS A FULLY AUTOMATED CALL?		٥٥	7 0	-0	00	0	20	71 0		0	_
JID CALL INVOLVE AN AGENT?	0		-			0		-			, ,
		0	0			0	0		0		_
IVR SUMMARY: (MENU CHOICES) (USE WORDS: "PHONF #" "RING" "FAST BUSY"	4 ~	3.1 PHONE NO	31	4 0 INVALIDI	BILLING, OTHER OTHER	ADD/CHANGE ADD/CHANGE	KEPAIR	NEW, 0 INPUT NUMBER	NEW 2.2	BILLING, OTHER OTHER	
	ANG UP	RING		3	3,3	3, 1, 973-622-3626	26		1	33	_
OID CALLER TRY 0 AND FAIL?	0	0	0	-		0	0		0	0	
FUNCTIONS?)	0	0	0	0	0	1	0	0	0	0	, ,
INDICATE WHICH ONE APPLIES)		 									
ABANDON AT START OF IVR (RINGING OR INTRO)											
ABANDON AT PHONE # PROMPT											
ABANDON AT CUSTOMER ID PROMP!											111
ABANDON AT OTHER PROMPT											43
į											
ABANDON AT "ALL OUR AGENTS ARE CURRENTLY"											
N AT FAST BUSY OR SYSTEM BUG											
JNUSUALLY HEAVY CALL VOLUMES											
WHERE IN IVR DID THEY ABANDON											,
MASTERKEY											,
2 NEW SERVICE											
3 ADD/CHANGE											
4 BILLING/OTHER											
5 REPAIR											
ER GOT TO AN AGENT, HOW?)											
ARY PHONE (0 TONES PRESSED)?											
) TRANSFER BASED ON PHONE NUMBER?				ĵ.							
THROUGH INTRODUCTION BY PREVIOUS AGENT?											
IN IVR THROUGH INVALID/TIMEOUT?											
LID NONZERO TRANSFER?	0			1) 0	0	0			
"0" SING "0"											
OTHER (DIDN'T CATCH IT)											_
E MENU CHOICES MADE IN IVR											_
1. PAY ARRANGEMENTS (MASTER KEY)											
ER NEW SERVICE (WELCOME CENTER)											_

FIG. 6B

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REPRESENTING EVENTS IN CALLS HANDLED BY
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								·μι	63	3 I	via			_				8/4	13
																		<u> </u>	SON CHECKING SON CHECKING NECOGNIZE FOR INTERNET ACCESS AND SHE'LL HAVE TO PAY FOR THE CALLS.
																			NEW SVC ONDER ASSIGNED AND TS CTR. COME
																			LEASING A PHONE COSTS MONEY WORRIED THAT SHE THREWA PHONE OUT AND SOMEONE IS USING IT SHE'S STILL GETTING A BILL FOR IT PHONE LEASED THROUGH XYZ AND SO IS TRANSFERRED TO XYZ LEASING. WO HAVING REALISED THAT PHONE IS NOT CONNECTED TO NUMBER AND SHE'S NOT GETTING BILLED FOR OTHER CALLS.
																			CALLER THOUGHT IT WAS A VOICE-RECO SYSTEM AND WHEN ROMPTED FOR PHONE NUMBER, SPOKE IT AND DIDN'T PUTITIN, NEEDS ACK IN HER ROOM SCHEDULED AN APPT TOMORROW
																			RECEIVED VZ TELEMARKETING CUST, AND JUST CUST, AND JUST WANT'S TO BE REMOVED FROM TELEMARKETING LIST, BLOCK ADDED TO LINE FOR VZ TELEMRK TELEMRK TELEMRK TELEMRK TO 0 (0
																			CUSTOMER WITH XYZ WANTS TO SWITCH TO SELECTIVE CALLING.
																			ANGRY LAND- LORD CALLING FOR TEMAN'S FOR TEMAN'S IN AT START IN AT START IN APT 3 MOVING TO APT 4- WAS UNABLE TO GET THROUGH ON A MONDAY AFTER 45 MINUTES.
																			WANTS TO DISTANCE TO DISTANCE TO DISTANCE TO DISTANCE THE TO DISTANCE TO THE TEATURES TO THE TEATURES TO THE TEATURE TO THE TE
2-2 NEW SERVICE - FOLLOW-UP	3-2 ADD/REMOVE	3-3 DISCONNECT	4-1 BILLING/PHONE DIRECTORY	4-2 BILLING/UNAUTHORIZED CALLS	4-3-1 BILLING/OTHER/PAY/MASTER K	4-3-2 BILLING/OTHER/MASTER KEY	4-3-3 BILLING/OTHER/OTHER	5 REPAIR (REPAIR CENTER)	1-2 (SPANISH)	(INDICATE FUNCTIONS COMPLETED IN IVR)	PAYMENT CENTER LOCATION	PAYMENT CENTER HOURS	PAYMENT MAILING ADDRESS	ACCOUNT INFORMATION	ESTABLISH ACCE USING PIN	PAYMENT ARRANGEMENTS	ENTER DETAILS OF LAST PAYMENT	COPY OF BILL	L SUMMARY: + SOLUTION) H SOLUTION) S HAVE BEEN DONE IN MKTB S HAVE BEEN BEEN DONE IN MKTB S HAVE BEEN DONE IN MKTB S

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		- 28		6	ASSIGNS RATI			0							0	0					0														T	
		7	0	6	XYZ EXPLAINED THAT LEASING IS ENDED AND THE PHONE ISNT	יבטובו סויבו חובר		0								0 0	:				0 0											0 0			1	1
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							0	0	0	0	0	0	0	-	C	C		,		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-	=
		-		6	7		0	0	0	-	0	0	С	0		0		•		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	=	=
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DIFFERENT CARRIER	TRANSFER TO SPANISH AGENT	DURATION WITH SECOND AGENT?	FURTHER TRANSFERS?	(IF YES)	EXPLAIN:	TOPIC SUMMARY	PAYMENT ARRANGEMENT	NEW SERVICE	ORDER FOLLOW-UP	SALES - ADD	SALES-REMOVE	DISCONNECT	BALANCE/COPY	OTHER	REPAIR	SPANISH	REROUTE		ROUTING SUMMARY	1 OR 4-3-1 PAY ARRANGEMENTS (MASTER KEY)	CE (WE	2-2 NEW SERVICE - FOLLOW-UP	3-1 ADD/ADD	3-2 ADD/REMOVE	3-3 DISCONNECT	4-1 BILLING/PHONE DIRECTORY		4-3-2 BALANCE/COPY/LOCATIONS/LAST PAYMENT	4-3-3-0THER	5 REPAIR (REPAIR CENTER)	(1-2 (SPANISH)	_	INVALID, TIMEOUT, OR "0" ONCE IN IVR			

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APPABATUS AND METHOD FOR VISUALLY
REPRESENTING EVENTS IN CALLS HANDLED E
AUTOMATED RESPONSE SYSTEM
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FIG. 6C

FIG. 6C-1
FIG. 6C-2
FIG. 6C-3
FIG. 6C-4

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APPARATUS AND METHOD FOR VISUALLY
ESENTING EVENTS IN CALLS HANDLE AND MATED RESPONSE SYSTEM
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CALL NUMBER		22/43			
2 TRANSCRIBER	<u></u>	<u> </u>	C	D	Ε
3 DATE:	1	CALL NUMBER	ALL CALLS STATISTICS		
PHONE #:	2	TRANSCRIBER			
5 SEX OF CALLER: 6 CLOCK TIME (END OF INTERACTION) 7 DURATION OF INTERACTION (WHOLE MIN) 5.123042506 8 DURATION OF ENTIRE CALL (WHOLE MIN) 7.548098434 9 WAS THIS A FULLY AUTOMATED CALL? 14 10 DID CALL INVOLVE AN AGENT? 339 11 339 12 IVR SUMMARY: (MENU CHOICES) 0 13 (USE WORDS: "PHONE #" "RING" "FAST BUSY" 0 14 "HAING UP" "ROTARY" 0 15 0 0% 15 15 0 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 IJF 1, INDICATE WHICH ONE APPLIES! 0 0%	3_				
6 CLOCK TIME (END OF INTERACTION) 7 DURATION OF INTERACTION (WHOLE MIN) 8 DURATION OF INTERACTION (WHOLE MIN) 9 WAS THIS A FULLY AUTOMATED CALL? 11 J 12 IVR SUMMARY: (MENU CHOICES) 12 IVR SUMMARY: (MENU CHOICES) 13 (USE WORDS: "PHONE #" "RING" "FAST BUSY" 16 DID CALL INVOLVE AN AGENT? 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 18 IJF 1, INDICATE WHICH ONE APPLIES] 19 IDD CALLER TRY 0 AND FAIL? 19 IVR SUMMARY: (MENU CHOICES) 10 O% 14 "HANG UP" "ROTARY" 10 O% 15 IDD CALLER TRY 0 AND FAIL? 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 18 IJF 1, INDICATE WHICH ONE APPLIES] 10 O% 19 IABANDON AT TEATR OF IVR (RINGING OR INTRO) 10 O% 20 ABANDON AT PHONE # PROMPT 11 ABANDON AT TEATR OF IVR (RINGING OR INTRO) 21 ABANDON AT PHONE # PROMPT 22 ABANDON AT PHONE # PROMPT 22 ABANDON AT PROMPT 22 ABANDON AT PROMPT 22 ABANDON AT FAST BUSY OR SYSTEM BUG 23 ABANDON AT FAST BUSY OR SYSTEM BUG 24 ABANDON AT FAST BUSY OR SYSTEM BUG 25 ABANDON AT FAST BUSY OR SYSTEM BUG 26 UNUSUALLY HEAVY CALL VOLUMES 27 OTHER: 29 G% 28 WHERE IN IVR DID THEY ABANDON 29 I MASTERKEY 20 4% 30 I NASTERKEY 20 4% 31 ADDICHANGE 31 3 3% 31 ADDICHANGE 32 BILLING/OTHER 33 ABONDON AT PROMPT 34 BILLING/OTHER 35 IJF CALLER GOT TO AN AGENT, HOW? 37 BY ROTARY PHONE (0 TONES PRESSED)? 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 39 OW 40 IN IVR THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 IN IVR, THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 IN IVR, THROUGH INTRODUCTION BY PREVIOUS AGENT? 41 AVA 42 IN IVR, THROUGH INTRODUCTION BY PREVIOUS AGENT? 44 IN IVR, THROUGH INTRODUCTION BY PREVIOUS AGENT? 45 IN IVR DID THEY SABDE IN IVR 46 11 ON THROUGH INTRODUCTION BY PREVIOUS AGENT? 46 11 ON THROUGH INTRODUCTION BY PREVIOUS AGENT? 47 22 NEW SERVICE FOLLOW-UP 48 ADDIADD 49 AND ADDIADD 40 IN IVR THROUGH A VALID NONZERO TRANSFER? 41 IN IVR, THROUGH INTRODUCTION BY PREVIOUS AGENT? 46 11 ORDER NEW SERVICE (WELCOME CENTER) 46 12 ORDER NEW SERVICE FOLLOW-UP 47 22 NEW SERVICE - FOLLOW-UP 48 ADDIADD 49 ALTONATE TO THE AGENT? 47 22 NEW SERVICE - FOLLOW-UP 48 ADDIADD 49 ALTONATE TO THE AGENT? 48 ADDIADD	4	PHONE #:			
7 DURATION OF INTERACTION (WHOLE MIN) 5.123042506 0% 8 DURATION OF ENTIRE CALL (WHOLE MIN) 7.548098434 0% 9 WAS THIS A FULLY AUTOMATED CALL? 14 3% 10 DID CALL INVOLVE AN AGENT? 339 447 11 IVR SUMMARY: (MENU CHOICES) 0 0% 13 IUSE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 IJE 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 20 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 21 ABANDON AT CUSTOMER ID PROMPT 2 0% 22 ABANDON AT PROMPT 2 0% 23 ABANDON AT PROMPT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 30 AND WHICE RINGING FOR AGENT 20 6% 31 ANDOCHANGE IN INDICATE WHO INDICAT	5	SEX OF CALLER:			
7 DURATION OF INTERACTION (WHOLE MIN) 5.123042506 0% 8 DURATION OF ENTIRE CALL (WHOLE MIN) 7.548098434 0% 9 WAS THIS A FULLY AUTOMATED CALL? 14 3% 10 DID CALL INVOLVE AN AGENT? 339 447 11 IVR SUMMARY: (MENU CHOICES) 0 0% 13 IUSE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 IJE 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 20 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 21 ABANDON AT CUSTOMER ID PROMPT 2 0% 22 ABANDON AT PROMPT 2 0% 23 ABANDON AT PROMPT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 30 AND WHICE RINGING FOR AGENT 20 6% 31 ANDOCHANGE IN INDICATE WHO INDICAT	6	CLOCK TIME (END OF INTERACTION)			
B DURATION OF ENTIRE CALL (WHOLE MIN) 7.548098434 0% 9 WAS THIS A FULLY AUTOMATED CALL? 14 3% 10 DID CALL INVOLVE AN AGENT? 339 447 11 12 IVR SUMMARY: (MENU CHOICES) 0 0% 12 IVR SUMMARY: (MENU CHOICES) 0 0% 14 "HANG UP" "ROTARY" 0 0% 15 15 16 16 16 16 16 16	7		5.123042506	0%	
9 WAS THIS A FULLY AUTOMATED CALL? 10 DID CALL INVOLVE AN AGENT? 339 447 11 12 IVR SUMMARY: (MENU CHOICES) 13 (IUSE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0 0% 15 16 DID CALLER TRY 0 AND FAIL? 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 18 [IF 1, INDICATE WHICH ONE APPLIES] 19 ABANDON AT START OF IVR (RINGING OR INTRO) 10 ABANDON AT PTOME # PROMPT 21 ABANDON AT CUSTOMER ID PROMPT 22 ABANDON AT PROMPT 22 ABANDON AT PROMPT 23 ABANDON WHILE RINGING FOR AGENT 24 ABANDON WHILE RINGING FOR AGENT 25 ABANDON WHILE RINGING FOR AGENT 26 UNUSUALLY HEAVY CALL VOLUMES 27 OTHER: 28 WHERE IN IVR DID THEY ABANDON 29 I MASTERKEY 20 4% 30 2 NEW SERVICE 31 3 3% 30 7% 10 00% 20 ABANDON BOT THEY ABANDON 20 1 ABANDON BOT THEY ABANDON 21 ABANDON BOT THEY ABANDON 22 ABANDON BOT THEY ABANDON 23 ABANDON BOT THEY ABANDON 24 ABANDON BOT THEY ABANDON 25 ABANDON BOT THEY ABANDON 26 OTHER: 27 OTHER: 28 WHERE IN IVR DID THEY ABANDON 29 I MASTERKEY 20 4% 30 2 NEW SERVICE 31 3 1% 31 3 ADD/CHANGE 31 3 ABO/CHANGE 32 A BILLINGOTHER 33 5 REPAIR 40 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 0 0 0% 41 IN IVR, THROUGH IVALID/TIMEOUT? 42 ABANDON TERSER BASED ON PHONE NUMBER? 43 OTHER 44 INDICATE MENU CHOICES MADE IN IVR 45 IN IN IVR, THROUGH IVALID/TIMEOUT? 46 10 IN IVR, THROUGH IVALID/TIMEOUT? 47 2.2 NEW SERVICE FOLLOW-UP 48 36 14% 48 3-1 ADD/ADD 46 14%	8	DURATION OF ENTIRE CALL (WHOLE MIN)	7.548098434	0%	
10 DID CALL INVOLVE AN AGENT? 339 447 11 12 IVR SUMMARY; (MENU CHOICES) 0 0% 13 IUSE WORDS; "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15 0 0% 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 IF 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 19 ABANDON AT PHONE # PROMPT 2 10% 21 ABANDON AT PHONE # PROMPT 2 10% 22 ABANDON AT PHONE # PROMPT 2 25% 23 ABANDON AT PROMPT 2 25% 23 ABANDON AT PROMPT 2 20% 24 ABANDON AT PROMPT 2 20% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 28 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 3 19% 31 3 ADD/CHANGE 3 19% 33 5 REPAIR 2 0% 39 THROUGH INTRODUCTION BY PRESSEDJ? 62 14% 38 39 THROUGH INTRODUCTION BY PRESVIOUS AGENT? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 41 INI VIR, THROUGH INALDITIMEOUT? 28 6% 6% 41 INI VIR, THROUGH INALDITIMEOUT? 28 6% 6% 41 INI VIR, THROUGH INALDITIMEOUT? 28 6% 48 21 20 20 48 48 31 40 10 10 10 10 10 10 1	9				
11 IVR SUMMARY: (MENU CHOICES)	10	DID CALL INVOLVE AN AGENT?	339		
12 IVR SUMMARY: (MENU CHOICES) 0 0% 13 (USE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15	11				
13 (USE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15	_	IVR SUMMARY: (MENU CHOICES)	0	0%	
14 "HANG UP" "ROTARY" 0 0% 15					
15					
16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 [IF 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 10 ABANDON AT PHONE # PROMPT 2 0% 21 ABANDON AT CUSTOMER ID PROMPT 2 0% 22 ABANDON AT PROMPT 2 0% 22 ABANDON AT PROMPT 2 0% 23 ABANDON WHILE RINGING FOR AGENT 2 0% 24 ABANDON WHILE RINGING FOR AGENT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 3% 20 20 20 20 20 20 20 2		17/11/0 01 1/0 1/11/1	 	070	
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18					
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ABANDON AT PHONE # PROMPT					
21 ABANDON AT CUSTOMER ID PROMPT 2 0%					
ABANDON AT PROMPT 22 5%	_				
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24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 20 4% 30 2 NEW SERVICE 3 1% 31 3 ADD/CHANGE 13 3% 32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 18 4% 35 36 IJF CALLER GOT TO AN AGENT, HOW? 30 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 44 INDICATE MENU CHOICES MADE IN IVR 0 0% 45 1. PAY ARRANGMENTS (MASTER KEY) 12 3% 46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 28 6% 47 2-2 NEW SERVICE - FOLLOW -UP 37 8% 48 3-1 ADD/ADD 64 14%				0%	-
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26 UNUSUALLY HEAVY CALL VOLUMES 27 OTHER: 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 31 1% 31 3 ADD/CHANGE 113 3% 32 4 BILLING/OTHER 31 5 REPAIR 32 1 OTHER 35 18 4% 36 [IF CALLER GOT TO AN AGENT, HOW?] 37 BY ROTARY PHONE (0 TONES PRESSED)? 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 IN IVR THROUGH IVALID/TIMEOUT? 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 42 BY PRESSING "0" 43 OTHER (DIDN'T CATCH IT) 44 INDICATE MENU CHOICES MADE IN IVR 45 1. PAY ARRANGMENTS (MASTER KEY) 46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 47 2-2 NEW SERVICE - FOLLOW -UP 48 6% 47 2-2 NEW SERVICE - FOLLOW -UP 48 6% 48 3-1 ADD/ADD			<u> </u>		
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40 IN IVR THROUGH IVALID/TIMEOUT? 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 42 BY PRESSING "0" 43 OTHER (DIDN'T CATCH IT) 44 INDICATE MENU CHOICES MADE IN IVR 45 1. PAY ARRANGMENTS (MASTER KEY) 46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 47 2-2 NEW SERVICE - FOLLOW -UP 48 3-1 ADD/ADD 46 4 14%					
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41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 44 INDICATE MENU CHOICES MADE IN IVR 0 0% 45 1. PAY ARRANGMENTS (MASTER KEY) 12 3% 46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 28 6% 47 2-2 NEW SERVICE - FOLLOW -UP 37 8% 48 3-1 ADD/ADD 64 14%	40	IN IVR THROUGH IVALID/TIMEOUT?			
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43 OTHER (DIDN'T CATCH IT) 2 0% 44 INDICATE MENU CHOICES MADE IN IVR 0 0% 45 1. PAY ARRANGMENTS (MASTER KEY) 12 3% 46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 28 6% 47 2-2 NEW SERVICE - FOLLOW -UP 37 8% 48 3-1 ADD/ADD 64 14%					
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46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 28 6% 47 2-2 NEW SERVICE - FOLLOW -UP 37 8% 48 3-1 ADD/ADD 64 14%	45	1. PAY ARRANGMENTS (MASTER KEY)			
47 2-2 NEW SERVICE - FOLLOW -UP 37 8% 48 3-1 ADD/ADD 64 14%	46	2-1 ORDER NEW SERVICE (WELCOME CENTER)			
48 3-1 ADD/ADD 64 14%					
TO O TARBETTEE			64	14%	
1491.3-7 ATTURETURINE 1 121 3701		3-2 ADD/REMOVE	12	3%	

01-4004D; Katherine Godfrey et al.
APOSPATUS AND METHOD FOR VISUALLY
RESENTING EVENTS IN CALLS HANDLE

AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404355US

_	23/43			
	Α	C	· D	E
50	3-3 DISCONNECT	11	2%	
51	4-1 BILLING/PHONE DIRECTORY	1	0%	
	4-2 BILLING/ UNAUTHOURIZED CALLS	11	2%	-
	4-3-1 BILLING/OTHER/PAY/MASTER K	3	1%	
	4-3-2 BILLING/OTHER/MASTER KEY	11	2%	
55	4-3-3 BILLING/OTHER/OTHER	71		
			16%	
	5 REPAIR (REPAIR CENTER)	14	3%	-
	1-2 (SPANISH)	1	0%	
	[INDICATE FUNCTIONS COMPLETED IN IVR]	0	0%	
	PAYMENT CENTER LOCATION	3	1%	
	PAYMENT CENTER HOURS	0	0%	
61	PAYMENT MAILING ADDRESS	2	0%	
62	ACCOUNT INFORMATION	14	3%	
63	ESTABLISH ACCT USING PIN	0	0%	
	PAYMENT ARRANGEMENTS	1	0%	
_	ENTER DETAILS OF LAST PAYMENT	Ö	0%	
	COPY OF BILL	0	0%	
	ORDER PHONE DIRECTORY			
		0	0%	
	IDENTIFY UNAUTH CALL	4	1%	
	GET 800 # TO IDENTIFY UNAUTH CALLS-ETC.	3	1%	
70				
	AGENT CALL SUMMARY: (PROBLEM + SOLUTION)			
71	,			
72				
73				
74	COULD THIS HAVE BEEN DONE IN MK/TB	24	5%	
75	COLD THO THAT DELIT DOTAL IN MICHOL	21	0,0	
	I. DID AGENT PERFORM AUTOMATED FUNCTIONS?	25	6%	
	[INDICATE WHICH ONES]		070	
			0%	
	PAYMENT CENTER LOCATION	0		
	PAYMENT CENTER HOURS	0	0%	
	PAYMENT MAILING ADDRESS	0	0%	
	ACCOUNT INFORMATION	9	2%	
82	ESTABLISH ACCT USING PIN	0	0%	
	PAYMENT ARRANGEMENTS	5	1%	
	ENTER DETAILS OF LAST PAYMENT	0	0%	
	COPY OF BILL	5	1%	
	ORDER PHONE DIRECTORY	1	0%	
	IDENTIFY ABC UNAUTH CALL	5	1%	
	IDENTIFY ASC GNAUTH CALL IDENTIFY XYZ ETC. UNAUTH CALL	Ö	0%	
	IDENTIFI ATZ ETO. UNAUTH OALL		0 70	
89	II DID ACENT DO DOTENTIALLY AUTO EUNOTIONOS	40	40/	
	II. DID AGENT DO POTENTIALLY AUTO FUNCTIONS?	16	4%	
	[INDICATE WHICH ONES]	ļ <u>.</u>	004	
	FIND TOLL CALL RANGE	8	0%	
	REQUEST CALLING CARD			
	GET VOICE MAIL ACCESS #	3	0%	
95	GET 3+2 DIGIT NUMBER ON BILL	2	0%	
	GET INFO ON RATES-BY MAIL OR SEE DIRECT	0	0%	
	GET ADDRESS FOR WRITING TO REFUTE BILL	0	0%	
101	OLI ADDINLOGI ON MINIMO TO NEI OTE DILL		0,0	

01-4004D; Katherine Godfrey et al.
APPARATUS AND METHOD FOR VISUALLY
RESENTING EVENTS IN CALLS HANDL
BY AN AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404355US

	24/43			
	Α	С	D	E
98	OTHER: (POTENTIALLY AUTOMATABLE)	3	0%	
99				
100	III. DID AGENT DO NON-AUTOMATED FUNCTIONS?	220	49%	
	[INDICATE WHICH ONES]			
	PAYMENT ARRANGEMENTS	5	1%	
	NEW SERVICE- EXPLAINS 2 PARTS NEEDED	21	5%	
	NEW SERVICE FOLLOW UP (NOT DISCONNECT)	10	2%	
	CHECK ON STATUS OF PENDING ORDER	6	0%	
	SALES (PKGS, SERVICES, LINES, JACKS, ETC)	65	15%	
	SALES (REMOVE FEATURE- AGENT ASKS WHY)	16	4%	
	DISCONNECT (AND FORWARD CALLS)	9	2%	
	EXPLAIN BILL	25	6%	
	REMOVE UNAUTHORIZED CALL FROM BILL	4	1%	
	REMOVE OTHER CHARGES FROM BILL	2	0%	
	CONFIRM TODAY'S REPAIR SCHEDULE	3	1%	,
	SCHEDULE A VISIT WIHT REPAIRMAN	8	2%	
	TELL HOW/WHEN TO USE FEATURES THEY OWN	12	3%	
	OTHER	34	8%	
	WAS THIS CALL CODED ABOVE?	675	579	
	DID AGENT SEE CALL AS MISDIRECTED?	81	18%	
	DID AGENT TRANSFER THE CALL?	82	18%	
	IV. IF TRANSFERRED, TO WHAT DESTINATION?	0	0%	
	800-281-8584 MASTER KEY	1 0	0%	
	800-251-2355 REPAIR	12	3%	
	800-287-9933 COLLECTION CENTER	10	2%	
	800-870-0000 SERVICE SOLUTIONS	0	0%	
	TPV	1	0%	
	888-243-9733 TOLL BILLING	9	2%	
	800-246-2800 UNLAWFUL CALL SOL CTR	0	0%	
127	800-585-6127 INSTALLATION HOTLINE	11	2%	
	877-525-2375 DSL	2	0%	
120	800-427-9977 "BUSINESS OFFICE"	1	0%	
	DMC	1	0%	
130	NEW SERVICE FOLLOWUP	1 1	0%	
	DISCONNECT	1	0%	
	TELL HOW TO USE FEATURES	1 1	0%	
	WELCOME CENTER	10	2%	
	BUSINESS ACCOUNTS	2	0%	
	ISP CALL/VERIZON ONLINE	2	0%	
	WIRELESS	3	1%	
	DIFFERENT CARRIER	. 2	. 0%	
	SUPERVISOR	1 0	0%	
	OTHER	3	1%	
	TRANSER TO SPANISH AGENT	6	1%	
	WAS TRANSER WARM (AGENT STAYED)?	34	8%	
142	DURATION WITH SECOND AGENT?	663	0.292715232	
	FURTHER TRANSFERS?	14	3%	
		- ' -	370	
145	[IF YES] TOTAL NUMBER OF AGENTS INVOLVED	205	9%	
1746	DITUTAL NUMBER OF AGENTS INVOLVED	200	370	

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APPERATUS AND METHOD FOR VISUALLY
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AUTOMATED RESPONSE SYSTEM
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	A	С	D	E
147	I			
	EXPLAIN:			1
149			-	
	TOPIC SUMMARY			
	PAYMENT ARRANGEMENT	10		1
	NEW SERVICE	21		
	ORDER FOLLOW-UP	16		
	SALES-ADD	65		
	SALES-REMOVE	16		
156	DISCONNECT	9		
	PHONE DIRECTORY	1		
	IUNAUTHORIZED CALLS	9		
	BALANCE/COPY	14		
	OTHER	89		
	REPAIR	11		
	SPANISH	6		
	REROUTE			
164		267		
165				
166				
167				
168				
169				
170				
171				
172				
173				
	ROUTING SUMMARY			
	1 OR 4-3-1 PAY ARRANGMENTS (MASTER KEY)			
176	2-1 ORDER NEW SERVICE (WELCOME CENTER)			
	2-2 NEW SERVICE-FOLLOW-UP			
	3-1 ADD/ADD			
	3-2 ADD/REMOVE			
	3-3 DISCONNECT			
	4-1 BILLING/PHONE DIRECTORY			
182	4-2 BILLING/UNAUTHORIZED CALLS			
183	4-3-2 BALANCE/COPY/LOCATIONS/LAST PAYMENT			
184	4-3-3 OTHER			
185	5 REPAIR (REPAIR CENTER)			1
186	1-2 (SPANISH)			
187	ROTARY (INITIAL TIMEOUT)		•	
188	INVALID, TIMEOUT, OR "0" ONCE IN IVR			
189	OTHER (UNKNOWN)			

FIG. 6C-4

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APPARATUS AND METHOD FOR VISUALLY
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DATA	CONCLUSION
1. CUSTOMER ROUTES SELF IN IVR TO WRONG AGENT 2. AGENT TRANSFERS CUSTOMER IN RESPONSE TO CUSTOMER NEED.	MISROUTING (2 OR MORE AGENTS INVOLVED INSTEAD OF 1)
1. CUSTOMER ROUTES SELF IN IVR TO WRONG AGENT	MISROUTING (WRONG AGENT INVOLVED)
2. AGENT PERFORMS FUNCTION ANYWAY.	
1. AGENT PERFORMS FUNCTION. 2. FUNCTION IS AVAILABLE IN IVR.	UNDERUTILIZATION OF IVR FUNCTIONALITY.
1. AGENT PERFORMS FUNCTION 2. FUNCTION NOT CURRENTLY AVAILABLE IN IVR. 3. FUNCTION COULD POTENTIALLY BE ADDED	IVR MISSING CRUCIAL FUNCTIONALITY
1. CUSTOMERS OPTING OUT OF IVR AT FEW POPULAR POINTS. 2. IVR DOES NOT PROMPT FOR ID AT THE POINT.	MISSED OPPORTUNITY FOR AUTOMATED CUSTOMER DATA INPUT
1. AGENT STAYS ON THE LINE DURING TRANSER 2. POLICY DOES NOT ADVOCATE A "WARM TRANSFER"	POSSIBLE POLICY VIOLATION (REGARDING WARM TRANSFERS)
1. AGENT STAYS ON THE LINE DURING TRANSFER 2. TIME ON HOLD WITH CUSTOMER SUGGESTS AGENT NOT USING SPECIAL QUEUE FOR TRANSFER	POSSIBLE POLICY VIOLATION (REGARDING USE OF FAST QUEUE FOR AGENT TRANSFERS)
1. # CUSTOMERS REMAINING SILENT IN IVR 2. PERCENTAGE OF ROTARY USERS KNOWN 3. IF 1 SUBSTANTIALLY EXCEEDS 2	CUSTOMERS REFUSING TO PLAY THE GAME
1. # COSTUMERS COOPERATING IN IVR 2. # CUSTOMERS GETTING READOUT BEFORE ABANDONING IF 1 SUBSTANTIALLY EXCEEDS 2	CUSTOMERS RECEIVING NO BENEFIT FROM IVR THOUGH WILLING TO TRY
1. # CALLS 2. # CALLERS COMPLETING AT LEAST 1 FUNCTIONS IN IVR (INCLUDING GETTING READOUT) AND NOT GOING TO AGENT IF 1 SUBSTANTIALLY EXCEEDS 2	LOW "COMPLETE-SELF-SERVE" RATE

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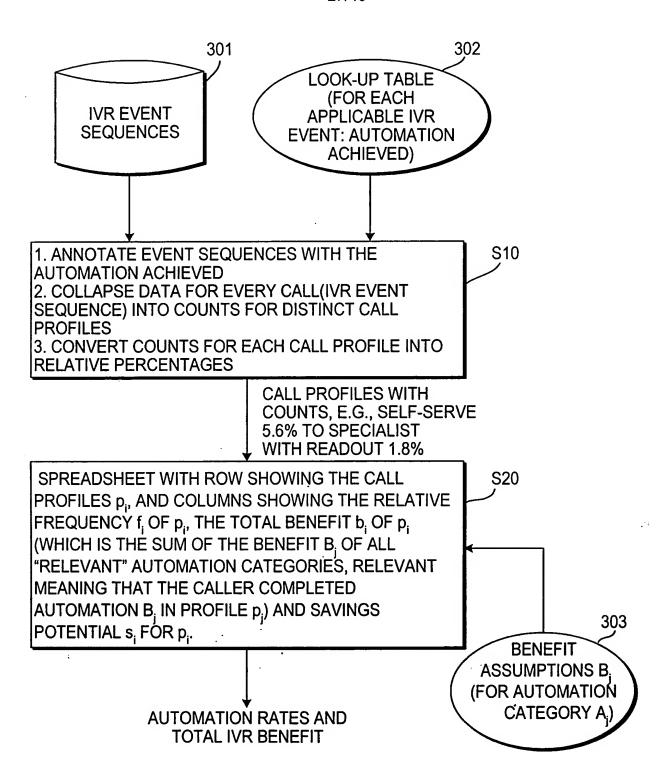


FIG. 7

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APPARATUS AND METHOD FOR VISUALL
PRESENTING EVENTS IN CALLS HAND
BY AN
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CALL PROFILE (P _i)	TRAFFIC (fi)	(f)	AUTOMATION (Bji)	۷ (Bji)		BENEFIT (AC	BENEFIT (AGENT SECS)
	CALLS	% CALLS	ACCOUNT #	ROUTING	% CALLS ACCOUNT # ROUTING INFO DELIVERY	ONE CALL	AVERAGE
FULLY-AUTOMATED CALLS	72	2.0%	ď	c .	_	105	2.1
TRANSFERS TO SPECIALIST AFTER INFORMATION READOUT	-	%0:0	А	Я	-	105	0.0
TRANSFERS TO FLOOR AFTER INFO READOUT	. 38	1.0%	А			55	9:0
TRANSFERS TO SPECIALIST W/ ID	849	23.4%		~		40	9.3
TRANSFERS TO FLOOR W/ ID	1008	27.7%	А			15	4.2
TRANSFERS TO FLOOR W/O ID	591	16.3%	·				
MISROUTED TO SPECIALIST W/ ID	389	10.7%	A	œ		-25	-2.7
MISROUTED TO SPECIALIST W/O ID	9	0.2%		쓕		-40	-0.1
ABANDONS	681	18.7%			·		
TOTAL	3636	100.0%	41.5%	14.5%	3.1%		13.4

F/G. 8

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RESENTING EVENTS IN CALLS HANDLE Y AN AUTOMATED RESPONSE SYSTEM
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AUTOMATION CATEGORY	CALLER IDENTIFICATION ("A")	INFORMATION DELIVERY $(^{ m T}{}^{ m T})$	ROUTING ("R")
ASSUMED BENEFIT [AGENT SECS]	15	40	40

FIG. 9

01-4004D; Katherine Godfrey et al. APPARATUS AND METHOD FOR VISUALLY RESENTING EVENTS IN CALLS HANDLE: AN AUTOMATED RESPONSE SYSTEM
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				SAVINGS	AUTOMATION	
AUTOMATABLE TRANSACTIONS	#OCCURRENCES	TIME SPENT	FREQUENCY	POTENTIAL	CATEGORY	
ACCOUNT_BALANCE	88	27.31	21.5%	5.9	_	
NEW_PAYMENT_ARRANGEMENT	56	20.94	13.7%	2.9	⊢	
CURRENT_PAYMENT_ARRANGEMENT	6	22.08	2.2%	0.5	_	
ZIP_CODE	2	9.48	0.5%	0.0	A	
PAYMENT_LOCATION	18	21.3	4.4%	0.9	_	
BALANCED_PAYMENT_PLAN_AMOUNT ·	9	21.8	1.5%	0.3	_	
RULES_12_AND_22	11	13.5	2.7%	0.4	_	3
NEW_APPOINTMENT_DATE_TIME	84	14.51	20.5%	3.0	V 4	30/4
IS_GAS_APPLIANCE	3	24.75	%2'0	0.2		3
IS_NOT_GAS_APPLIANCE	3	9.22	%2'0	0.1	A	
NEW_APPOINTMENT_CONFIRMATION_TELEP	82	18.26	20.0%	3.7	A	
NEW_APPOINTMENT_LOCATION	99	15.19	16.1%	2.5	A	
NEW_APPOINTMENT_DOG	22	11.72	13.9%	1.6	A	
NEW_APPOINTMENT_MULTI_OR_SINGLE		0	%0:0	0.0	A	
NEW_APPOINTMENT_ADULT_PRESENT	5	5.29	1.2%	0.1	A	
APPOINTMENT_DETAILS_CONFIRMATION	13	36.14	3.2%	-		
TOTAL NUMBER OF ANNOTATED CALLS	409			23.1		

7

WEIGHTED OPPORTUNITY: 16.6

%HANDLED BY AGENT 72%

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AUTOMATED RESPONSE SYSTEM
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AUTOMATION CATEGORIES

CUSTOMER CONTACT TYPE	% CALLS	CUSTOMER ID	ROUTING	INFO DELIVERY TRANSACTION	TRANSACTION
CUSTOMER SERVICE	8.7%	×			
BALANCE BILLING	36.7%	×	×	×	
PAYMENT ARRANGEMENTS	13.0%	×	×	×	×
PAYMENT OPTIONS	4.0%	×	×	×	
TURN ON	3.0%				
RATES	1.3%		×	×	
STOP SERVICE	3.5%	×			
SERVICE .	11.5%	×			
APPOINTMENT	16.5%	×	×	×	×
EMERGENCY	1.8%	×			
TOTAL/UPPER BOUNDS	100.0%	95.7%	71.5%	71.5%	29.5%

HOW TO TRANSFORM UPPER BOUNDS ON AUTOMATION TO AGENT TIME SAVING OPPORTUNITIES: 49 8 2

3.575 14.355 15 58.33 BENEFIT ASSUMPTION [AGENT SECS PER CALL] BENEFIT [AGENT SECS] TOTAL OPPORTUNITY

11.8

28.6

 $95.7\% \times 15 = 14.355$

FIG. 11

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RESENTING EVENTS IN CALLS HANDLE
AUTOMATED RESPONSE SYSTEM
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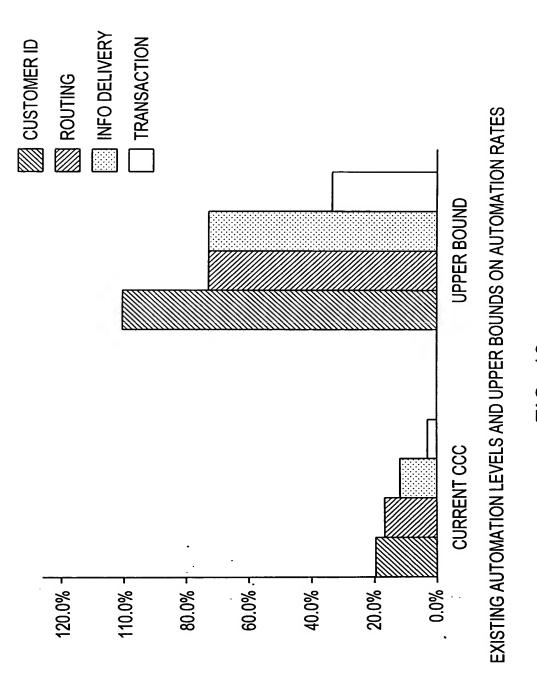
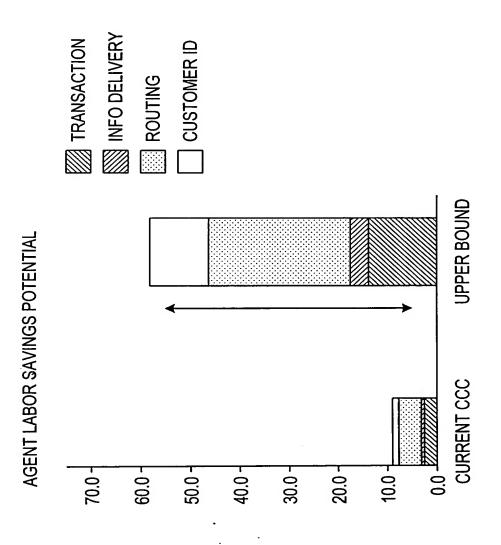


FIG. 12

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APSARATUS AND METHOD FOR VISUALLY
FEEDERS AND METHOD FOR VISUALLY
AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404355US



7G. 13

APPABATUS AND METHOD FOR VISUALLY ENTING EVENTS IN CALLS HANDLED E AUTOMATED RESPONSE SYSTEM Express Mail No. EL029404355US 34/43 START 4319 (100.0, 100.0) DIAGRAM 234 (*5.4*, 5.4) ABANDON "STATE"CORRESPONDS **GREETING** TO ONE OR MORE IVR 311(7.6, 7.2) TO_FLOOR_NEW 4085 INTERACTIONS WITH ACCOUNT (*94.6*,94.6) CALLER (PROMPT, 186(4.6, 4.3) TO_FLOOR RESPONSE, AND 46(1.1, 1.1) ABANDON RESULTING ACTION) OPENING_MENU THIS ID ENTRY STATE 3542 INCLUDES TIMEOUT AND (86.7,82.0) ERROR RETIRES. 366(*10.3*, 8.5) ABANDON ID_ENTRY BREAKDOWN OF IVR 415 EXIT CONDITIONS (11.7, 9.6)(TRANSFERS AND HANGUPS) ALT ID ENTRY 274 (66.0, 6.3) TO_FLOOR 2761(78.0,63.9) 82 (19.8. 1.9) ABANDON CALLS FOLLOWING THIS PATH 59(*14*.2,1.4) AS A PERCENTAGE OF CALLS LEAVING THE STATE 1045(*36.4*, 24.2) AS A PERCENTAGE OF SPECIALIST TYPE 1 TOTAL CALLS 105(3.7, 2.4) SPECIALIST_TYPE_2 77(2.7,1.8) SPECIALIST_TYPE_3 3(0.1,0.1)SELF_SERVE 4(0.1,0.1)TO_FLOOR_AFTER_ FIG. 14 READOUT 31(1.1,0.7) TO_FLOOR 74(2.6, 1.7) ABANDON MAIN MENU 966(33.6,22.3) 566(19.7,13.1) 31(3.2,0.8)> LOOPBACKS SUB_MENU OTHER_OPTIONS 11(*1.9*,0.3) **IVR IVR** LOOPBACKS **EXITS EXITS CONTINUATIONS** CONTINUATIONS

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APPARATUS AND METHOD FOR VISUALLY
REPERBORNE SENTING EVENTS IN CALLS HANDLED AN AUTOMATED RESPONSE SYSTEM
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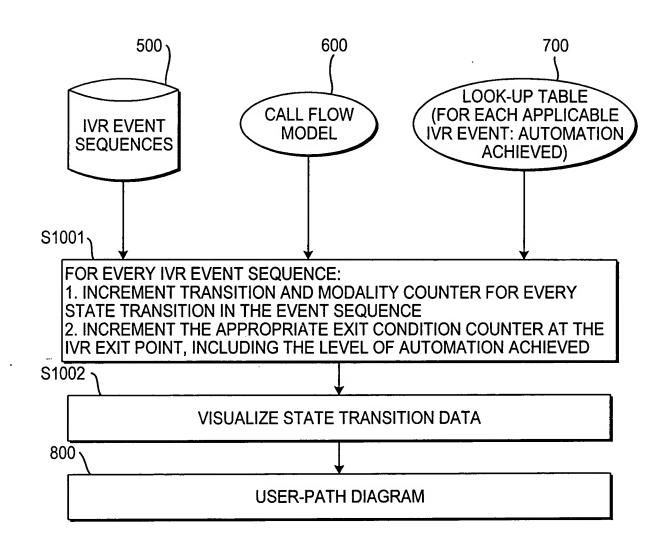
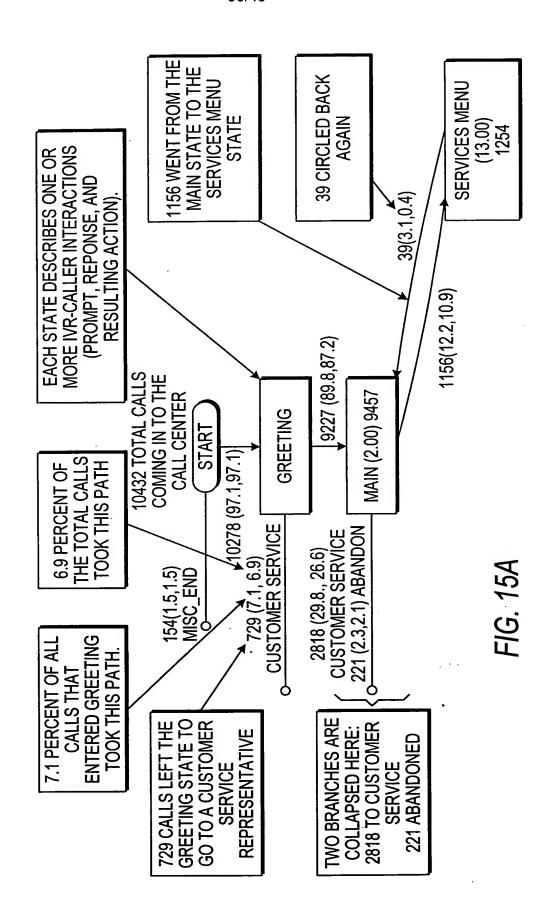


FIG. 15

01-4004D; Katherine Godfrey et al.
APPARATUS AND METHOD FOR VISUALLY
RELEASENTING EVENTS IN CALLS HANDLED
AN
AUTOMATED RESPONSE SYSTEM
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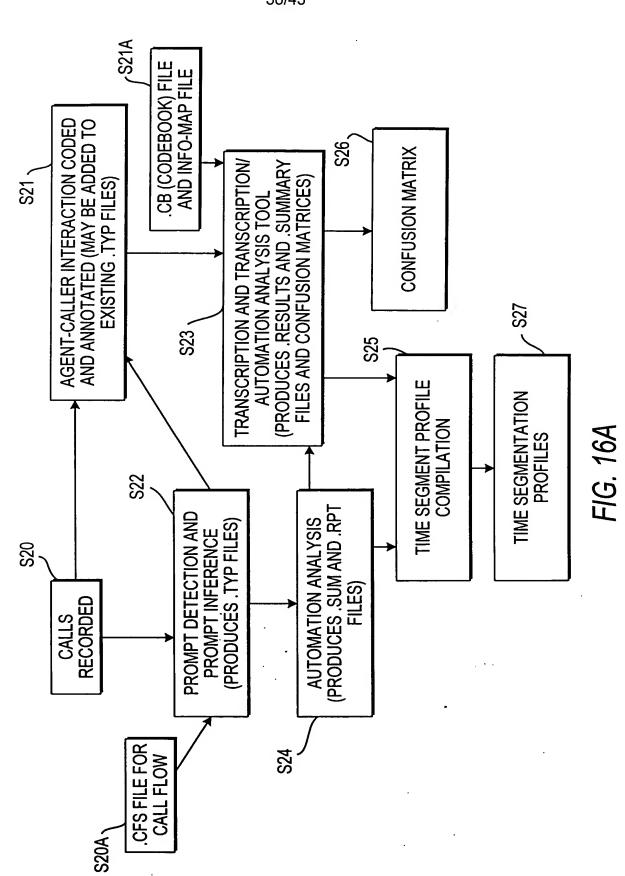
01-4004D; Katherine Godfrey et al.
APPARATUS AND METHOD FOR VISUALLY
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CALLER'S TT MENU CHOICE	SECIMITY,	YEOM 72	SPECIM N.3	100p	PO(1/88)	POUTURE POUTEDLY
SPECIALTY 1	33	0	16	16	65	51%
SPECIALTY 2	0	24	0	0	24	100%
SPECIALTY 3		2	∞	0	9	%08
FLOOR	22	10	56	150	208	72%
CALLS BY TRUE TOPIC	55	36	20	166	307	
TOPIC VOLUME	18%	12%	16%	54%	100%	
CORRECTLY IDENTIFIED	%09	%29	16%	%06	%02	
•					OVERALL ACCURACY	ALL RACY
			DIAGONA OTHERS =	DIAGONAL = CORRECTLY ROUTED OTHERS = MISROUTED	Y ROUTED	
		FIG. 16				

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ARATUS AND METHOD FOR VISUALLY
RESENTING EVENTS IN CALLS HANDI
AUTOMATED RESPONSE SYSTEM
Express Mail No. EL029404355US

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_	_	-	_	,	_		_		,	_	_	_	_	_	_			=	/4、	_						_										_
I	FIRST TOPIC	STRT	PAY-CHG	PAY-MAK	PAY-MAK	ECI	RSTR	ОТН	PAY-MAK	PAY-REV	PAY-MAK	CHNG	PAY-MAK	CHNG	PAY-MAK	PAY-MAK	PAY-MAK	ECI	STRT	BAL	PAY-MAK	PAY-MAK	PAY	OTH	PAY-MAK	RSTR	RSTR	STRT	PAY-MAK	STRT	PAY-MAK	PAY-MAK	PAY-REV	PAY-MAK	BIL	PAY-MAK
9	FIRST AGENT FIRST AGENT																																			
ட	FIRST AGENT																																			
	IVR ROUTING DEST	TURNON	PAYMENTX	PAYMENTX	BALANCEBILLING	BALANCEBILLING	BALANCEBILLING	BALANCEBILLING	CUSTOMERSERVICE	CUSTOMERSERVICE	PAYMENTX	TURNON	PAYMENTX	TURNON	BALANCEBILLING	PAYMENTX	CUSTOMERSERVICE	3ALANCEBILLING	TURNON	PAYMENTX	AYMENTX	BALANCEBILLING	AYMENTX	CUSTOMERSERVICE	CUSTOMERSERVICE	APPOINTMENT	CUSTOMERSERVICE	TURNON	CUSTOMERSERVICE	RATES	CUSTOMERSERVICE	AYMENTX	AYMENTX	PAYMENTX	BALANCEBILLING	CUSTOMERSERVICE
<u>a</u>		RULES_12_AND_22_READOUT	CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	CALLING_FROM_SERVICE_LOCATION,TELEPHONE,CO PAYMENTX	P-AGT_XFERFROMTELEPHON CALLING_FROM_SERVICE_LOCATION,CONFIRM		E	CALLING_FROM_SERVICE_LOCATION,TELEPHONE))	P-AGT_XFERFROMCONFIRMA CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	RULES_12_AND_22_READOUT	CATION, CONFIRM ADDR	P-AGT_STARTCLEANANDSHO RULES_12_AND22_READOUT	E	CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX		CALLING_FROM_SERVICE_LOCATION, TELEPHONE, CO BALANCEBILLING		N CALLING_FROM_SERVICE_LOCATION,TELEPHONE P	P-AGT_NEWPAYMENTARRAN CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	P-AGT_XFERFROMTELEPHON CALLING_FROM_SERVICE_LOCATION, TELEPHONE B	P-AGT_XFERFROMCONFIRMA CALLING_FROM_SERVICE_LOCATION,TELEPHONE,CO PAYMENTX	כו	O			RULES 12 AND 22 READOUT		RULES_12_AND_22_READOUT	2	CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	R	P-AGT_XFERFROMTELEPHON CALLING_FROM_SERVICE_LOCATION, TELEPHONE P	8	2
၁	IVR ROUTING	P-AGT_STARTHOMESERVICE	P-AGT_CSRFROMNEWPAY	P-AGT_NEWPAYMENTARRAN	P-AGT_XFERFROMTELEPHON	P-AGT_CSRFROMBILLING	P-AGT_CSRFROMBILLING	P-AGT_DUPSTATFAILURE	P-AGT_CSRFROMMAIN	P-AGT_CSRFROMMAIN	P-AGT_XFERFROMCONFIRMA	P-AGENT_START_COMM	P-AGT_NEWPAYMENTARRAN	P-AGT_STARTCLEANANDSHO			P-AGT_CSRFROMMAIN	P-AGT_CSRFROMDUPLICATE	P-AGT_STARTGASHOME	P-AGT_XFERFROMTELEPHON	P-AGT_NEWPAYMENTARRAN	P-AGT_XFERFROMTELEPHON	P-AGT_XFERFROMCONFIRMA	P-AGT_CSRFROMMAIN	P-AGT_CSRFROMMAIN	P-AGENT-ID-MAKE-APPOINTM	P-AGT_CSRFROMMAIN	P-AGT_STARTHOMESERVICE	P-AGT_CSRFROMMAIN	P-AGEND-MAIL_ELEC_R	P-AGT_CSRFROMMAIN	P-AGT_REFUSEDNEWPAY M	P-AGT_INCORRECTNOCURRE	P-AGT_XFERFROMTELEPHON	P-AGT_CSRFROMBILLING	P-AGT_CSRFROMMAIN
æ	IVR EXIT	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE
A	FILENAME	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	11 /DAM/TRANS/	12 ID4M/TRANS/	13 //D4M/TRANS/	14 [/D4M/TRANS/	15 I/D4M/TRANS/	16 //D4M/TRANS/	17 DAM/TRANS/	18 /ID4M/TRANS/	19 ID4M/TRANS/		/D4M/TRANS/	22 I/DAM/TRANS/	23 I/D4M/TRANS/			/D4M/TRANS/	/D4M/TRANS/	28 ID4M/TRANS/	29 /D4M/TRANS/		31 /D4M/TRANS/		33 /D4M/TRANS/		35 /D4M/TRANS/	36 /D4M/TRANS/
L	-	7	ო	4	2	ဖ	7	∞	6	10	7	12	13	7	15	16	17	18	19	20	21	22	23	24	22	8	27	78	29	8	31	32	8	8	8	99

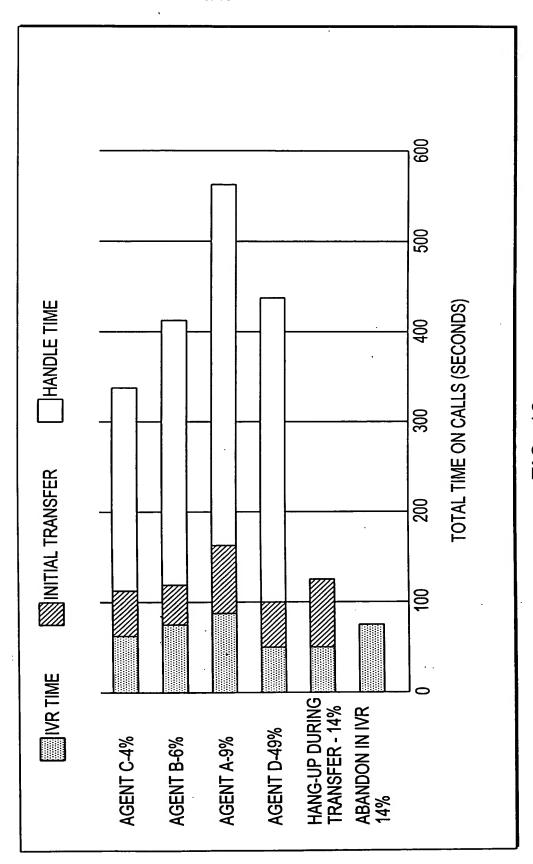


FIG. 18

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REPERTURE ENTING EVENTS IN CALLS HANDLED
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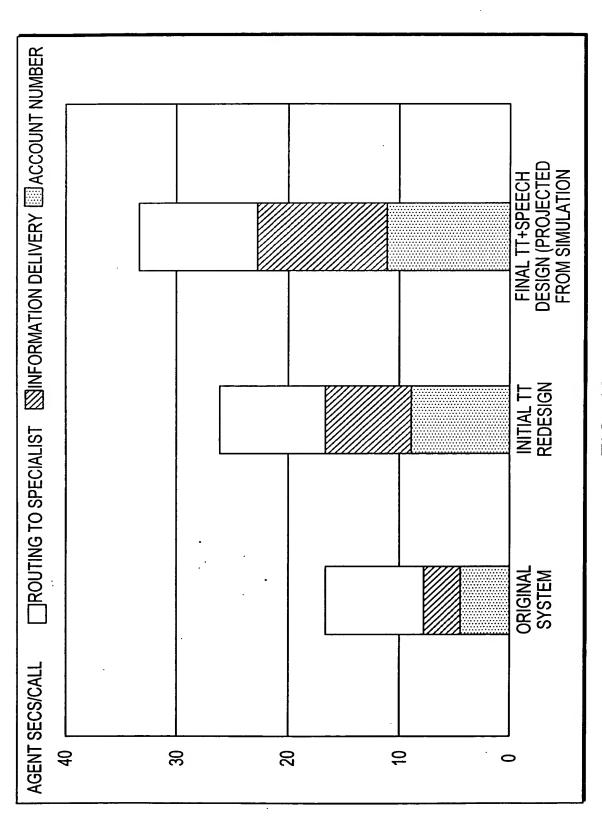
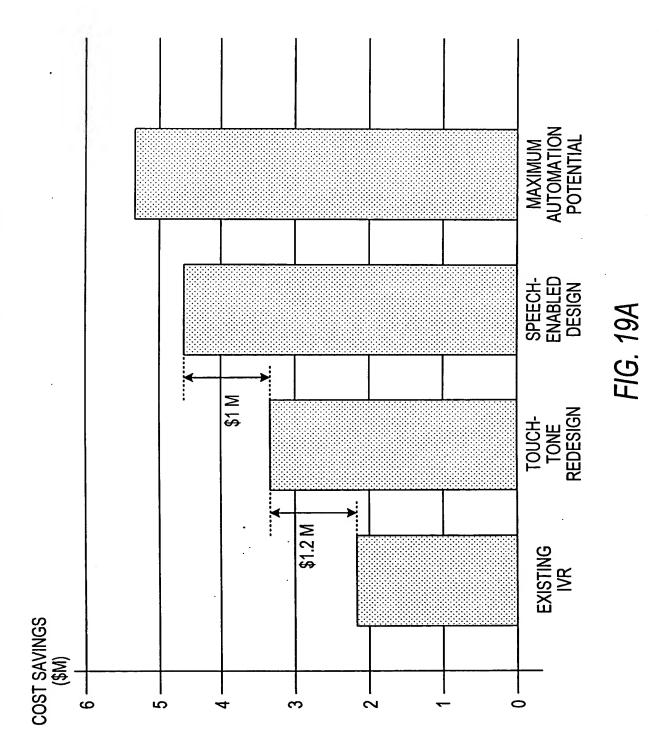


FIG. 19

01-4004D; Katherine Godfrey et al.
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REIL SENTING EVENTS IN CALLS HANDLED
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AUTOMATED RESPONSE SYSTEM
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